

## CLAIMS

1. Method for access by a client (110a, 110b, 110c) to services provided by a service provider (160, 170, 180), the client (110) being able to transmit and/or receive information according to a point-to-point transport protocol via a telecommunication network (150) and a session concentrator (100) which is able to transmit and/or receive information according to the point-to-point transport protocol, characterised in that an access control protocol is used in the telecommunication network to control access to the services provided by the service provider, and in that the method comprises the steps of:

- determining (E200) whether or not the client conforms to the access control protocol,
- authorising (E201) the client that does not conform to the access control protocol to access a network for non-conforming clients (140), the network for non-conforming clients being set up on the telecommunication network (150) and allowing access to the session concentrator (100),
- establishing (E302) a session between the non-conforming client (110) and the session concentrator (100) according to the point-to-point transport protocol on the network for non-conforming clients (140),
- transferring (E305), by the session concentrator (100), the information transmitted by the non-conforming client (110) in the established session to a network (161, 162, 163) for clients that conform to the access control protocol, the network for conforming clients being set up on the telecommunication network (150) and allowing access to the services (160, 170, 180) provided by the service provider, and reciprocally.

2. Method according to Claim 1, characterised in that the method furthermore comprises the steps, carried out by the session concentrator (100), of:

- determining (E303), among the information transmitted by the service provider (160, 170, 180) in the network for conforming clients (161, 162, 163), information destined for the non-conforming client,

- transferring the determined information to the non-conforming client (110) in the established session between the non-conforming client and the session concentrator (100).

3. Method according to Claim 1 or 2, characterised in that a number of service providers (160, 170, 180) can be accessed by clients (110), each service provider being accessible via at least one network for clients that conform to the access control protocol (161, 162, 163), and in that the method furthermore comprises a step, carried out by the session concentrator, of determining the network for clients that conform to the access control protocol which allows access to the service provider for the non-conforming client, and of transferring (E305) the information transmitted by the non-conforming client in the established session to the determined network for conforming clients.

4. Method according to any one of Claims 1 to 3, characterised in that the step of establishing the session between the non-conforming client and the session concentrator is broken down into sub-steps, carried out by the session concentrator, of:

- receiving (E300) at least one broadcast message which is transmitted by the client on the network for non-conforming clients, the broadcast message comprising at least the address of the client,

- transferring (E301) on the network for non-conforming clients at least one identification request message destined for the non-conforming client.

5. Method according to Claim 4, characterised in that the step of establishing the session between the client

and the session concentrator furthermore comprises the sub-steps, carried out by the session concentrator, of

- receiving at least one message comprising at least one identifier which is transmitted by the client on the network for non-conforming clients,
- transferring the identifier to an authentication server,
- obtaining an authenticator for the client and transferring the authenticator to the authentication server (E302),
- establishing the session if the authentication server authenticates the client.

6. Method according to any one of Claims 1 to 5, characterised in that the client accesses the telecommunication network via a Digital Subscriber Line Access Multiplexor (130), and in that the Digital Subscriber Line Access Multiplexor determines whether or not the client conforms to the access control protocol (E200).

7. Method according to Claim 6, characterised in that, if the client conforms to the access control protocol, the Digital Subscriber Line Access Multiplexor authorises the client that conforms to the access control protocol to access a network for conforming clients (161, 162), the network for conforming clients being set up on the telecommunication network and allowing access to a service provider.

8. Method according to Claim 7, characterised in that a number of service providers can be accessed by clients, each service provider being accessible via at least one network for clients that conform to the access control protocol, and in that the method furthermore comprises a step, carried out by the Digital Subscriber Line Access Multiplexor, of determining (E202) the network for clients that conform to the access control protocol which

allows access to the service provider for the conforming client, and of transferring the information transmitted by the conforming client to the determined network for conforming clients.

9. Method according to Claim 7, characterised in that the telecommunication network is a network of the GigaEthernet type, the access control protocol is a protocol of the 802.1x type, and in that the point-to-point transport protocol is a protocol in accordance with recommendation RFC 2516.

10. Method according to Claim 9, characterised in that the information transmitted according to the point-to-point transport protocol is in the form of packets, and in that the session concentrator, before transferring the information transmitted by the non-conforming client in the established session to a network for clients that conform to the access control protocol, forms information frames from the packets.

11. System for access by a client (110) to services provided by a service provider (160, 170, 180), the client being able to transmit and/or receive information according to a point-to-point transport protocol via a telecommunication network (150) and a session concentrator (100) which is able to transmit and/or receive information according to the point-to-point transport protocol, characterised in that an access control protocol is used in the telecommunication network (150) to control access to the services provided by the service provider, and in that the system comprises:

- means (130, 200) for determining whether or not the client conforms to the access control protocol,

- means (130, 200) for authorising the client that does not conform to the access control protocol to access a network for non-conforming clients (140), the network for non-conforming clients being set up on the

telecommunication network (150) and allowing access to the session concentrator (100),

- means (100, 104) for establishing a session between the client and the session concentrator according to the point-to-point transport protocol on the network for non-conforming clients (140),

- means for transferring, by the session concentrator, the information transmitted by the non-conforming client in the established session to a network (161, 162, 163) for clients that conform to the access control protocol, the network for conforming clients being set up on the telecommunication network (150) and allowing access to the services provided by the service provider (160, 170, 180), and reciprocally.

12. Computer program stored on an information support, said program comprising instructions which make it possible to carry out the method according to any one of Claims 1 to 10 when it is loaded and run by a computer system.